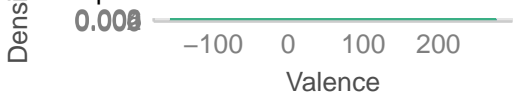


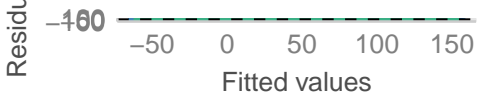
## Posterior Predictive Check

Model-predicted lines should resemble observed data



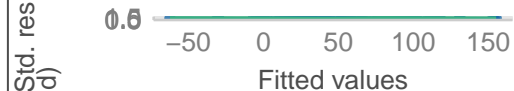
## Linearity

Reference line should be flat and horizontal



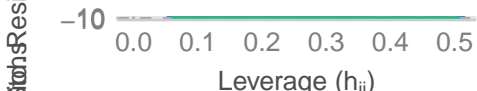
## Homogeneity of Variance

Reference line should be flat and horizontal



## Influential Observations

Points should be inside the contour lines



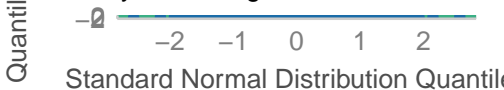
## Collinearity

High collinearity (VIF) may inflate parameter estimates



## Normality of Residuals

Points should fall along the line



Low ( $< 5$ )